CW#108&HW#108: Volume in the CP

Geometry  
Due: Monday, April 11th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

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| You will be able to find the volume of a prism formed by a polygon in the coordinate plane. | |
| Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 4.58.50 AM.png  a) Find the area of square STUV.      b) Suppose the sides of the square were extended 10 units above the paper such that they formed a rectangular prism. Draw a picture and find the volume of the prism. | 2. Find the area of the triangle shown above. 3. Suppose the sides of the triangle were extended 15 units above the paper such that they formed a rectangular prism. Draw a picture and find the volume of the prism. |
| 1. Find the volume of the prism formed by rectangle UVWX when the sides are raised 20 units above the paper.   Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-11-09 at 4.59.12 AM.png | 1. Find the volume of the prism formed by triangle ABC when the sides are raised 13 units above the paper. |

Directions: Find the volume of the prism formed by each shape below given the units the sides are raised above the paper. Graph each problem below on a piece of graph paper that you either attached to the classwork or is in your notebook.

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| 1. The region bound by y=1, x=4, x=0 and y=0, raised 17 units. | 1. The region bound by y=-3, x=-1, y=10, and x=2, raised 5 units. |
| 1. The region bound by y=5, x=2, x=-4 and y=2, raised 30 units. | 1. The region bound by the x & y-axis and the line y= 2x - 4, raised 14 units. |
| 1. The region bound by the x-axis, y=-10 and the line y=(1/4) x+2, raised 5 units | 1. The triangle formed by the intersections of y=x, the y-axis and y=6, raised 12 units. |
| 1. The region bound by the lines ,, and  , raised 6 units. | 1. The region bound by the lines ,  , and the x- axis, raised 16 units. |
| 1. Rectangle ABCD with vertices at A(-3,0), B(3,2), C(4,-1), and D(-2,-3), raised 10 units. | 1. Quadrilateral QBCD has vertices D(5,1), E(2,4),  F(-4,4), and G(-1.1), raised 23 units. |
| 1. Square PQRS has vertices P(-3, 0), Q(0, 4), R(4, 1), and S(1, -3), raised 13 units. | 1. Rectangle ABCD has vertices A (-3, -4), B (-1, 2),  C (2, 1), and D (0, -5), raised 7 units. |
| 1. quadrilateral QFIZ that has vertices Q(2,-1),  F(-1,-1), I(-2,-3), Z(1,-3), raised 10 units. | 1. Quadrilateral USFW has vertices U(1,-3), S(-1,-2), F(-1,5), and W(1,4), raised 15 units. |